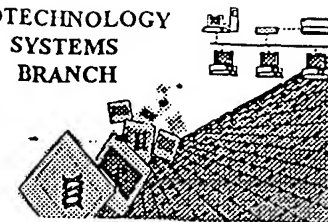


420

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/644,664

Source:

ORF

Date Processed by STIC:

9-3-04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/644,664

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIE

RAW SEQUENCE LISTING

DATE: 09/03/2003

PATENT APPLICATION: US/10/644,664

TIME: 16:54:47

Input Set : A:\kuvshinov 1-intron.ST25.txt

Output Set: N:\CRF4\09032003\J644664.raw

3 <110> APPLICANT: UniCrop Ltd
 5 <120> TITLE OF INVENTION: A molecular mechanism for gene containment in plants
 7 <130> FILE REFERENCE: kuvshinov 1-intron
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/644,664
 C--> 9 <141> CURRENT FILING DATE: 2003-08-20

9 <160> NUMBER OF SEQ ID NOS: 13
 11 <170> SOFTWARE: PatentIn version 3.2
 13 <210> SEQ ID NO: 1

14 <211> LENGTH: 357

15 <212> TYPE: DNA

16 <213> ORGANISM: artificial sequence/Bacillus amyloliquefaciens

18 <220> FEATURE:

19 <223> OTHER INFORMATION: Plant adapted synthetic coding sequence of barnase gene

21 <400> SEQUENCE: 1

22	cgcgatcca tggcacaagt tatcaacacc tttgatggag ttgctgacta ccttcagacc	60
24	taccataagc ttccagataa ctacatcacc aagtctgagg ctccaggctct tggatgggtt	120
26	gcttctaagg gaaaccttgc tgatgtcgct ccaggaaagt ctatcgaggg tgatatcttc	180
28	tctaacaggg agggaaagct tccaggaaag tctggaagga cctggagggg ggctgatata	240
30	aactacacct ctggattcag gaactctgat aggatccttt actcttccga ctggcttata	300
32	tacaagacca ctgaccacta ccagaccttc accaagatcc ggtgagagct cgagcgc	357

35 <210> SEQ ID NO: 2

36 <211> LENGTH: 299

37 <212> TYPE: DNA

38 <213> ORGANISM: artificial sequence/Bacillus amyloliquefaciens

40 <220> FEATURE:

41 <223> OTHER INFORMATION: Plant adapted synthetic coding sequence of barstar gene

43 <400> SEQUENCE: 2

44	cgcgatcct gatcatgaag aaggctgtta tcaacggtga gcaaattagg tctatctctg	60
46	atcttcacca gacccttaag aaggagcttg ctcttcaga gtactacgga gagaaccttg	120
48	atgctctatg ggattgcctt accggatggg tggagtaccc acttgttttg gaggaggagg	180
50	agtttgagca gtctaagcag cttactgaga atggagctga gagtggttct caggttttcc	240
52	gggaggctaa ggctgaggga tgcgatatca ccatcattct ttcttgagag ctcgagcgc	299

55 <210> SEQ ID NO: 3

56 <211> LENGTH: 529

57 <212> TYPE: DNA

58 <213> ORGANISM: artificial sequence

60 <220> FEATURE:

61 <223> OTHER INFORMATION: intron of uidA gene

63 <400> SEQUENCE: 3

64	actagtttac aaacgtttcc ctatataaac cctcctttgt tcaactgcttt cctccctgct	60
66	gtggcttctc tccgaagttc atcccggtcc acctgcaaaa taagtaataa gataaagtaa	120
68	aaaagttagt atggctcaag ttattaatac ttttgatgga gttgctgatt atcttcaaac	180
70	ttatcataaa cttccagata attatattac taaatctgaa gctcaagctc ttggatgggt	240

**Does Not Comply
Corrected Diskette Need d**

see item 10
on error
summary
sheet

RAW SEQUENCE LISTING

DATE: 09/03/2003

PATENT APPLICATION: US/10/644,664

TIME: 16:54:47

Input Set : A:\kuvshinov 1-intron.ST25.txt

Output Set: N:\CRF4\09032003\J644664.raw

```

72 tgcttctaaa ggaaatcttg ctgatgttgc tccaggaaaa tctattggag gagatatttt 300
74 ttcaaataga gaaggaaaac ttccaggaaa atctggaaga acatggagag aagctgatat 360
76 taattatact tctggattta gaaattcaga tagaatcctt tattcatctg attggcttat 420
78 ttataaaaact acagatcatt atcaaaacttt tacaaaaatt agataaatat ttgtattttt 480
80 tgtatgttgt gatcattaat aaataaataa atacatacct cttctgcag 529
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 52
85 <212> TYPE: DNA
86 <213> ORGANISM: artificial sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: the last (third exon) of uid gene
91 <400> SEQUENCE: 4
92 gtggaccggg atgaacttcg gagagaagcc acagcaggga ggaaagcagt ga 52
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 51
97 <212> TYPE: DNA
98 <213> ORGANISM: artificial sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: 5'UTR of barnase gene
103 <400> SEQUENCE: 5
104 catcccggtc cacctgcaaa ataagtaata agataaagta aaaaagttag t 51
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 38
109 <212> TYPE: DNA
110 <213> ORGANISM: artificial sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: 3' flanking signal of the intron of uidA
115 <400> SEQUENCE: 6
116 actaaacttt ttactttatc ttattactta ttttgcag 38
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 474
121 <212> TYPE: DNA
122 <213> ORGANISM: artificial sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: 35 S promoter of CaMV
127 <400> SEQUENCE: 7
128 gcggaattca attgatcaac atggtggagc acgacactct cgtctactcc aagaatatca 60
130 aagatacagt ctcaagaagac cagagggcta ttgagacttt tcaacaaagg gtaatatcgg 120
132 gaaacctcct cggattccat tgcccagcta tctgtcactt catcgaaagg acagtagaaa 180
134 aggaagatgg cttctacaaa tgccatcatt gcgataaagg aaaggctatc gttcaagaat 240
136 gcctctaccg acagtgggtcc caaagatgga cccccacca cgaggaacat cgtggaaaaa 300
138 gaagacgttc caaccacgtc ttcaaagcaa gtggattgat gtgatatctc cactgacgta 360
140 agggatgacg cacaatccca ctatactcta tcaactgatag agtctatata agactctatc 420
142 actgatatag tgaactctat cactgataga gtcgacggat ccatggaatc cgcg 474
145 <210> SEQ ID NO: 8
146 <211> LENGTH: 10
147 <212> TYPE: DNA
148 <213> ORGANISM: artificial sequence
150 <220> FEATURE:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/644,664

DATE: 09/03/2003

TIME: 16:54:47

Input Set : A:\kuvshinov 1-intron.ST25.txt

Output Set: N:\CRF4\09032003\J644664.raw

```

151 <223> OTHER INFORMATION: sequence upstream the PstI site
153 <400> SEQUENCE: 8
154 cgcttttctg 10
157 <210> SEQ ID NO: 9
158 <211> LENGTH: 10
159 <212> TYPE: DNA
160 <213> ORGANISM: artificial sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: changed sequence upstream the pstI site
165 <400> SEQUENCE: 9
166 tgccttcctg 10
169 <210> SEQ ID NO: 10
170 <211> LENGTH: 10
171 <212> TYPE: DNA
172 <213> ORGANISM: artificial sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: polyadenylation signal in transcription unit near the
upstream
176 element (NUE)
178 <400> SEQUENCE: 10
179 ttattttattt 10
182 <210> SEQ ID NO: 11
183 <211> LENGTH: 18
184 <212> TYPE: DNA
185 <213> ORGANISM: artificial sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Forward GUS-LcF primer
190 <400> SEQUENCE: 11
191 atcagcggtg gtgggaaa 18
194 <210> SEQ ID NO: 12
195 <211> LENGTH: 18
196 <212> TYPE: DNA
197 <213> ORGANISM: artificial sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: reverse GUS-LcR primer
202 <400> SEQUENCE: 12
203 acgaatatct gcatcggc 18
206 <210> SEQ ID NO: 13
207 <211> LENGTH: 716
208 <212> TYPE: DNA
209 <213> ORGANISM: artificial sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Vigna mungo (SH-EP promoter), Bacillus amyloliquefaciens
(barnase
213 gene), Escherichia coli (uidA gene)
215 <400> SEQUENCE: 13
216 tattgaatcc ttggctacc attcttgaga aacacaaaca cttcttatat ctgttctaca 60
218 caattctctg agtgcgtgcc acagtttggt atcttcatga ttgctcattg ttcattgccca 120
220 taaggaacat gtaacttcct catttattta ttattgcttt tgttttcttc tcactagttt 180
222 acaaacgttt ccctatataa accctccttt gttaactgct ttctccctg ctgtggcttc 240
224 tctccgaagt tcatcccggt ccacctgcaa aataagtaat agataaagt aaaaaagtta 300

```

RAW SEQUENCE LISTING

DATE: 09/03/2003

PATENT APPLICATION: US/10/644,664

TIME: 16:54:47

Input Set : A:\kuvshinov 1-intron.ST25.txt

Output Set: N:\CRF4\09032003\J644664.raw

226	gtatggctca	agttattaat	acttttgatg	gagttgctga	ttatcttcaa	acttatcata	360
228	aacttccaga	taattatatt	actaaatctg	aagctcaagc	tcttgatgg	gttgcttcta	420
230	aaggaaatct	tgctgatggt	gctccaggaa	aatctattgg	aggagatatt	tttcaaata	480
232	gagaaggaaa	acttccagga	aaatctggaa	gaacatggag	agaagctgat	attaattata	540
234	cttctggatt	tagaaattca	gatagaattc	tttattcatc	tgattggctt	atttataaaa	600
236	ctacagatca	ttatcaaact	tttacaataa	ttagataaat	atttgtattt	tttgtatggt	660
238	gtgatcatta	ataaataaat	aaatacatat	ctcttctgca	gcaggaaggc	agccga	716

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/644,664

DATE: 09/03/2003

TIME: 16:54:48

Input Set : A:\kuvshinov 1-intron.ST25.txt

Output Set: N:\CRF4\09032003\J644664.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date